

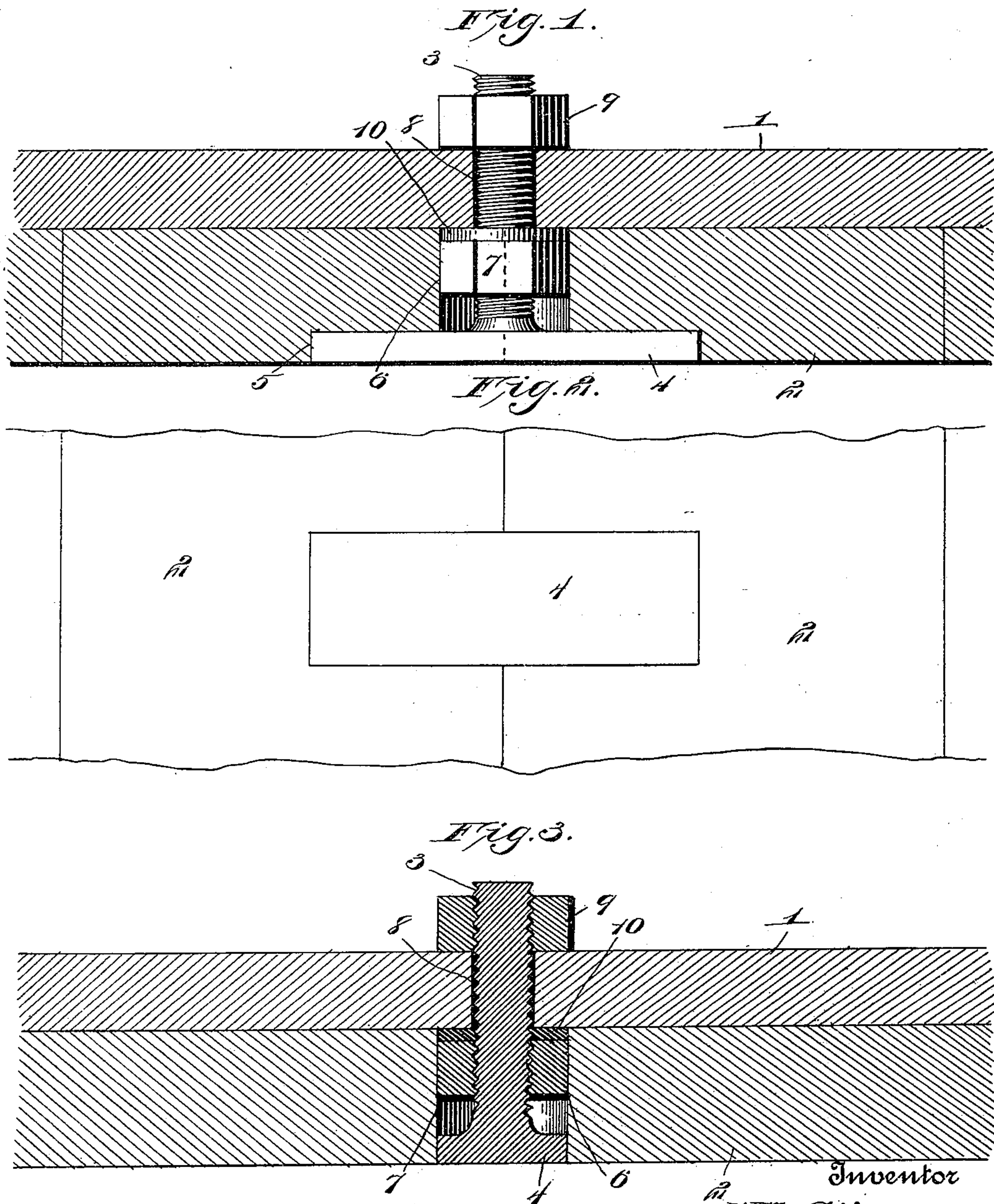
No. 667,603.

Patented Feb. 5, 1901.

W. STIVEN.
SHEATHING FOR SHIPS.

(Application filed June 1, 1900.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM STIVEN, OF JERSEY CITY, NEW JERSEY.

SHEATHING FOR SHIPS.

SPECIFICATION forming part of Letters Patent No. 667,603, dated February 5, 1901.

Application filed June 1, 1900. Serial No. 18,763. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM STIVEN, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Sheathing, of which the following is a specification.

This invention relates to new and improved means for fastening wooden sheathing to the bottom of iron or steel boats or vessels; and its primary object is to provide a device of novel construction which may be readily secured to the steel plates of the hull without necessitating the threading of the holes therein, but which will nevertheless remain in position in the event of the breakage of its connection with the sheathing, and thereby prevent leakage.

A further object is to provide means whereby the number of holes necessary to be drilled in the hull may be reduced to the minimum.

To these ends the invention consists in the novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a side elevation of the securing means in position within the sheathing shown in section. Fig. 2 is a plan view thereof, and Fig. 3 is a transverse section.

Referring to said figures by numerals of reference, 1 is a metal plate of the hull, and 2 is a sheathing of suitable material formed of strips of suitable size. Between the edges of the strips of sheathing 2 are placed bolts 3, having long rectangular heads 4, which overlap the edges of said strips and are fitted within recesses 5, formed therein. The openings 6 within the strips are of sufficient size to receive nuts 7, which are mounted on the bolts 3 and may be inserted from the outside. The bolts extend through passages 8, formed in the plates 1 of the hull, and are retained thereon by means of nuts 9 upon the bolts

on the inner side of the plates. A washer 10, of rubber or similar material, is mounted on each bolt 3 at the outside of the plate, and this is clamped tightly against said plate by the nuts, thereby preventing leakage. It will be seen that by this construction the number of passages 8 necessary is reduced to the minimum and threads therein are dispensed with.

In the event of breakage the bolt will snap between its head and the nut 7, and therefore remain within the plate 1 and prevent leakage.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes and alterations as fairly fall within the scope of my invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a plate having a passage therein, of strips thereon, a bolt between the strips and within the passage, a head to the bolt and overlapping the edges of the strips, and nuts upon the bolt at opposite sides of the plate.

2. The combination with a plate having a passage therein, of strips thereon, a bolt between the strips and within the passage, a head to the bolt and seated within recesses in the outer faces of the strips, a nut and washer upon the bolt within the openings between the strips and bearing upon the plate, and a nut upon the bolt at the opposite side of said plate.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM STIVEN.

Witnesses:

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